

# Xiaogang He

## List of Articles by Year in descending order

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67

PR articles

2,445

PR citations

198601

26

PR h-index

212086

46

g-index

73

documents

2711

doc citations

210859

27

h-index

4611

citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancing flood prediction in the Lower Mekong River Basin by a scale-independent interpretable deep learning model. <i>Environmental Impact Assessment Review</i> , 2026, 116, 108130.	10.9	3
2	A Tale of Two Unprecedented Droughts in Southeast Asia: Physical Drivers and Impending Future Risks. <i>Earth's Future</i> , 2025, 13, .	7.2	0
3	Probabilistic Assessment of Global Drought Recovery and Its Response to Precipitation Changes. <i>Geophysical Research Letters</i> , 2024, 51, .	4.1	19
4	A bioenergy-focused versus a reforestation-focused mitigation pathway yields disparate carbon storage and climate responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2024, 121, .	7.5	16
5	Unveiling the role of climate in spatially synchronized locust outbreak risks. <i>Science Advances</i> , 2024, 10, .	10.9	21
6	High resolution prediction and explanation of groundwater depletion across India. <i>Environmental Research Letters</i> , 2024, 19, 044072.	4.9	6
7	Response of Erosive Precipitation to Vegetation Restoration and Its Effect on Soil and Water Conservation Over China's Loess Plateau. <i>Water Resources Research</i> , 2023, 59, .	4.6	53
8	Asymmetric response of global drought and pluvial detection to the length of climate epoch. <i>Journal of Hydrology</i> , 2023, 625, 130078.	6.0	6
9	Balancing-oriented hydropower operation makes the clean energy transition more affordable and simultaneously boosts water security. <i>Nature Water</i> , 2023, 1, 778-789.	17.0	59
10	Complex climate and network effects on internal migration in South Africa revealed by a network model. <i>Population and Environment</i> , 2022, 43, 289-318.	2.2	11
11	Climate Rather Than Vegetation Changes Dominate Changes in Effective Vegetation Available Water Capacity. <i>Water Resources Research</i> , 2022, 58, .	4.6	18
12	Effective multi-satellite precipitation fusion procedure conditioned by gauge background fields over the Chinese mainland. <i>Journal of Hydrology</i> , 2022, 610, 127783.	6.0	24
13	Revegetation Does Not Decrease Water Yield in the Loess Plateau of China. <i>Geophysical Research Letters</i> , 2022, 49, .	4.1	109
14	Future bioenergy expansion could alter carbon sequestration potential and exacerbate water stress in the United States. <i>Science Advances</i> , 2022, 8, .	10.9	30
15	Quantitative Stress Test of Compound Coastal&Fluvial Floods in China's Pearl River Delta. <i>Earth's Future</i> , 2022, 10, .	7.2	46
16	Large&scale reforestation can increase water yield and reduce drought risk for water&insecure regions in the <scp>Asia&Pacific</scp>. <i>Global Change Biology</i> , 2022, 28, 6385-6403.	11.1	47
17	Atmospheric forcing dominates winter Barents-Kara sea ice variability on interannual to decadal time scales. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.5	39
18	Implementation of Dynamic Effective Rooting Depth in Evapotranspiration Model Deepens Understanding of Evapotranspiration Partitioning Under Soil Moisture Gradients in China. <i>Water Resources Research</i> , 2022, 58, .	4.6	15

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19	A Physics-Informed Bayesian Storyline Approach to Assess Sediment Transport in the Mekong. <i>Water Resources Research</i> , 2022, 58, .	4.6	13
20	Evaluation of the ERA5 reanalysis precipitation dataset over Chinese Mainland. <i>Journal of Hydrology</i> , 2021, 595, 125660.	6.0	389
21	Acceleration of western Arctic sea ice loss linked to the Pacific North American pattern. <i>Nature Communications</i> , 2021, 12, .	13.7	51
22	Validation of the Community Land Model Version 5 Over the Contiguous United States (CONUS) Using In Situ and Remote Sensing Data Sets. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, .	3.0	33
23	Historical Water Storage Changes Over China's Loess Plateau. <i>Water Resources Research</i> , 2021, 57, .	4.6	60
24	Climate-informed hydrologic modeling and policy typology to guide managed aquifer recharge. <i>Science Advances</i> , 2021, 7, .	10.9	46
25	A hybrid framework for forecasting monthly reservoir inflow based on machine learning techniques with dynamic climate forecasts, satellite-based data, and climate phenomenon information. <i>Stochastic Environmental Research and Risk Assessment</i> , 2021, 36, 2353-2375.	3.2	32
26	Estimation of Crop Water Requirement Based on Planting Structure Extraction from Multi-Temporal MODIS EVI. <i>Water Resources Management</i> , 2021, 35, 2231-2247.	4.2	20
27	A comparative study of extensive machine learning models for predicting long-term monthly rainfall with an ensemble of climatic and meteorological predictors. <i>Hydrological Processes</i> , 2021, 35, .	2.6	41
28	Robust Increases in Extreme Pacific North American Events Under Greenhouse Warming. <i>Geophysical Research Letters</i> , 2020, 47, .	4.1	12
29	Rational Planning of Land Use Can Maintain Water Yield Without Damaging Ecological Stability in Upstream of Inland River: Case Study in the Hei River Basin of China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, .	3.0	15
30	Spatiotemporal Analysis of Land Use and Land Cover (LULC) Changes and Precipitation Trends in Shanghai. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7897.	2.1	11
31	Lagged Compound Occurrence of Droughts and Pluvials Globally Over the Past Seven Decades. <i>Geophysical Research Letters</i> , 2020, 47, .	4.1	174
32	Identification of uncertainty sources in quasi-global discharge and inundation simulations using satellite-based precipitation products. <i>Journal of Hydrology</i> , 2020, 589, 125180.	6.0	14
33	Satellite-Based Operational Real-Time Drought Monitoring in the Transboundary Lancang-Mekong River Basin. <i>Remote Sensing</i> , 2020, 12, 376.	3.7	18
34	Contrasting Influences of Human Activities on Hydrological Drought Regimes Over China Based on High-Resolution Simulations. <i>Water Resources Research</i> , 2020, 56, .	4.6	104
35	Projected Seasonal Changes in Large-Scale Global Precipitation and Temperature Extremes Based on the CMIP5 Ensemble. <i>Journal of Climate</i> , 2020, 33, 5651-5671.	8.0	49
36	Survey of particle production rates from process activities in pharmaceutical and biological cleanrooms. <i>Science and Technology for the Built Environment</i> , 2019, 25, 692-704.	1.7	9

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37	Water security implications of coal-fired power plants financed through China's Belt and Road Initiative. <i>Energy Policy</i> , 2019, 132, 1101-1109.	8.9	65
38	Improving CHIRPS Daily Satellite-Precipitation Products Using Coarser Ground Observations. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2019, 16, 1678-1682.	3.2	14
39	Integrated approaches to understanding and reducing drought impact on food security across scales. <i>Current Opinion in Environmental Sustainability</i> , 2019, 40, 43-54.	5.2	112
40	Annual precipitation and daily extreme precipitation distribution: possible trends from 1960 to 2010 in urban areas of China. <i>Geomatics, Natural Hazards and Risk</i> , 2019, 10, 1694-1711.	4.4	27
41	Solar and wind energy enhances drought resilience and groundwater sustainability. <i>Nature Communications</i> , 2019, 10, .	13.7	58
42	Evaluating three satellite-based precipitation products of different spatial resolutions in Shanghai based on upscaling of rain gauge. <i>International Journal of Remote Sensing</i> , 2019, 40, 5875-5891.	2.5	11
43	Evaluation of Groundwater Simulations in Benin from the ALMIP2 Project. <i>Journal of Hydrometeorology</i> , 2019, 20, 339-354.	4.2	2
44	Future increases in irrigation water requirement challenge the water-food nexus in the northeast farming region of China. <i>Agricultural Water Management</i> , 2019, 213, 594-604.	6.2	64
45	Intensification of hydrological drought in California by human water management. <i>Geophysical Research Letters</i> , 2017, 44, 1777-1785.	4.1	137
46	Minimization of electricity demand and cost for multi-zone buildings: Part I—Modeling and validation. <i>Science and Technology for the Built Environment</i> , 2017, 23, 998-1012.	1.7	3
47	Responses of land evapotranspiration to Earth's greening in CMIP5 Earth System Models. <i>Environmental Research Letters</i> , 2016, 11, 104006.	4.9	57
48	Spatial downscaling of precipitation using adaptable random forests. <i>Water Resources Research</i> , 2016, 52, 8217-8237.	4.6	219
49	Development of a coupled hydrological-geotechnical framework for rainfall-induced landslides prediction. <i>Journal of Hydrology</i> , 2016, 543, 395-405.	6.0	59
50	New Multisite Cascading Calibration Approach for Hydrological Models: Case Study in the Red River Basin Using the VIC Model. <i>Journal of Hydrologic Engineering - ASCE</i> , 2016, 21, .	1.6	54
51	Probabilistic precipitation rate estimates with ground-based radar networks. <i>Water Resources Research</i> , 2015, 51, 1422-1442.	4.6	91
52	Inter-comparison of radar-based nowcasting schemes in the Jianghuai River Basin, China. <i>Meteorological Applications</i> , 2015, 22, 289-300.	2.4	4
53	The Diurnal Cycle of Precipitation in Regional Spectral Model Simulations over West Africa: Sensitivities to Resolution and Cumulus Schemes. <i>Weather and Forecasting</i> , 2015, 30, 424-445.	1.9	22
54	Restoration of 1-hour dry-bulb temperature gaps for use in building performance monitoring and analysis—Part I. <i>HVAC and R Research</i> , 2014, 20, 594-605.	0.9	9

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55	Restoration of missing dry-bulb temperature data with long-term gaps (up to 60Âdays) for use in building performance monitoring and analysisâ€”Part II. HVAC and R Research, 2014, 20, 606-615.	0.9	1
56	Solar cycle modulation of the Pacificâ€”North American teleconnection influence on North American winter climate. Environmental Research Letters, 2014, 9, 024004.	4.9	13
57	Hydro-Climatological Drought Analyses and Projections Using Meteorological and Hydrological Drought Indices: A Case Study in Blue River Basin, Oklahoma. Water Resources Management, 2012, 26, 2761-2779.	4.2	94
58	Orientation Angle Calibration for Bare Soil Moisture Estimation Using Fully Polarimetric SAR Data. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4987-4996.	6.4	9
59	Application of radar-measured rain data in hydrological processes modeling during the intensified observation period of HUBEX. Advances in Atmospheric Sciences, 2003, 20, 205-211.	3.5	6
60	Strategizing renewable energy transitions to preserve sediment transport integrity. Nature Sustainability, 0, 8, 1314-1327.	21.2	2
61	Causal pathways underlying global soil moistureâ€”precipitation coupling. Nature Communications, 0, 16, .	13.7	2
62	Spatially synchronized structures of global hydroclimatic extremes. Nature Water, 0, 3, 1376-1388.	17.0	1
63	Record-breaking rainfall: a stochastic approach for its prediction. npj natural hazards, 0, 2, .	0.0	0
64	Beyond the Mean: Cold and Warm Tail Temperature Trends Reveal Asymmetric Controls on Snowpack Changes in the Northern Hemisphere. Water Resources Research, 0, 61, .	4.6	0
65	Variable renewable energy pathways in the Lower Mekong Basin under projected riverâ€”flow extremes. Communications Earth & Environment, 0, 6, .	6.9	1
66	Spatially resolved modeling of pumped storage and hydropower for China's carbon neutrality. Energy and Environmental Science, 0, 19, 906-925.	30.8	0
67	Complex Networks Reveal Climate Models' Capability in Simulating Global Synchronized Extreme Precipitation. Geophysical Research Letters, 0, 53, .	4.1	0